

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	RP1-3014-U
	First Inventor	LAWLOR, Shawn P. et al
	Title	SUPERSONIC GAS COMPRESSOR
	Express Mail Label No.	ER510835388US

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, D.C. 20231
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original, and a duplicate for fee processing)</small>	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.	8. Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small>
3. <input checked="" type="checkbox"/> Specification <small>[Total Pages 39]</small> <small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none">- Descriptive title of the invention- Cross Reference to Related Applications- Statement Regarding Fed sponsored R & D- Reference to sequence listing, a table, or a computer program listing appendix- Background of the Invention- Brief Summary of the Invention- Brief Description of the Drawings (if filed)- Detailed Description- Claim(s)- Abstract of the Disclosure	a. <input type="checkbox"/> Computer Readable Form (CRF)
4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <small>[Total Sheets 7]</small>	b. Specification Sequence Listing on: <ul style="list-style-type: none">i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); orii. <input type="checkbox"/> paper
5. Oath or Declaration <small>[Total Pages]</small> <ul style="list-style-type: none">a. <input type="checkbox"/> Newly executed (original or copy)b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 18 completed)</small>i. <input type="checkbox"/> DELETION OF INVENTOR(S) <small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small>	c. <input type="checkbox"/> Statements verifying identity of above copies
6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76	ACCOMPANYING APPLICATION PARTS
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.: _____ / _____ <small>Prior application information: Examiner _____ Group / Art Unit: _____</small>	9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.	10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small>
	11. <input type="checkbox"/> English Translation Document (if applicable)
	12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations
	13. <input type="checkbox"/> Preliminary Amendment
	14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small>
	15. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small>
	16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
	17. <input type="checkbox"/> Other:
19. CORRESPONDENCE ADDRESS	
<input checked="" type="checkbox"/> Customer Number or Bar Code Label 20793 or <input type="checkbox"/> Correspondence address below <small>(Insert Customer No. or Attach bar code label here)</small>	
Name _____	
Address _____	
City _____	State _____ Zip Code _____
Country _____	Telephone _____ Fax _____

Name (Print/Type)	R. REAMS GOODLOE, JR.	Registration No. (Attorney/Agent)	32,466
Signature	<i>R. Reams Goodloe, Jr.</i>	Date	09/25/03

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box 1450, ALEXANDRIA, VA 22313-1450.

Mail Stop

FEE TRANSMITTAL for FY 2003 <i>Patent fees are subject to annual revision</i>		Complete if Known	
		Application Number	Not assigned Confirmation No.: N/A
		Filing Date	September 25, 2003
		First Named Inventor	LAWLOR, Shawn P. et al.
		Examiner Name	Not assigned
		Group / Art Unit	Not assigned
TOTAL AMOUNT OF PAYMENT (\$) 1154.00		Attorney Docket No.	RP1-3014-U

METHOD OF PAYMENT (check one) 1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: <u>07-1613</u> Deposit Account Name: <u>R. Reams Goodloe, P.S.</u> <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §§ 1.16 and 1.17 <input checked="" type="checkbox"/> <u>Applicant claims small entity status</u> 37 CFR 1.27 2. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other	FEE CALCULATION (continued) 3. ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>1051 130</td><td>2051 65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052 50</td><td>2052 25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053 130</td><td>1053 130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812 2,520</td><td>1812 2,520</td><td>For filing a request for <i>ex parte</i> reexam.</td><td></td></tr> <tr><td>1804 920*</td><td>1804 920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805 1,840*</td><td>1805 1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251 110</td><td>2251 55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252 410</td><td>2252 205</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253 930</td><td>2253 465</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254 1,450</td><td>2254 725</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255 1,970</td><td>2255 985</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401 320</td><td>2401 160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402 320</td><td>2402 160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403 280</td><td>2403 140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451 1,510</td><td>1451 1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452 110</td><td>2452 55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453 1,300</td><td>2453 650</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501 1,300</td><td>2501 650</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502 470</td><td>2502 235</td><td>Design issue fee</td><td></td></tr> <tr><td>1503 630</td><td>2503 315</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460 130</td><td>1460 130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807 50</td><td>1807 50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806 180</td><td>1806 180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021 40</td><td>8021 40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809 750</td><td>2809 375</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810 750</td><td>2810 375</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>1801 750</td><td>2801 375</td><td>Request for Continued Examination (RCE)</td><td></td></tr> </tbody> </table>	Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	1051 130	2051 65	Surcharge - late filing fee or oath		1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet		1053 130	1053 130	Non-English specification		1812 2,520	1812 2,520	For filing a request for <i>ex parte</i> reexam.		1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action		1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action		1251 110	2251 55	Extension for reply within first month		1252 410	2252 205	Extension for reply within second month		1253 930	2253 465	Extension for reply within third month		1254 1,450	2254 725	Extension for reply within fourth month		1255 1,970	2255 985	Extension for reply within fifth month		1401 320	2401 160	Notice of Appeal		1402 320	2402 160	Filing a brief in support of an appeal		1403 280	2403 140	Request for oral hearing		1451 1,510	1451 1,510	Petition to institute a public use proceeding		1452 110	2452 55	Petition to revive - unavoidable		1453 1,300	2453 650	Petition to revive - unintentional		1501 1,300	2501 650	Utility issue fee (or reissue)		1502 470	2502 235	Design issue fee		1503 630	2503 315	Plant issue fee		1460 130	1460 130	Petitions to the Commissioner		1807 50	1807 50	Processing fee under 37 CFR 1.17(q)		1806 180	1806 180	Submission of Information Disclosure Stmt		8021 40	8021 40	Recording each patent assignment per property (times number of properties)		1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))		1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))		1801 750	2801 375	Request for Continued Examination (RCE)	
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SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	R. Reams Goodloe, Jr.	Reg. Number	32,466
Signature	<i>R. Reams Goodloe</i>	Deposit Account User ID	4035
Date	09/25/03		

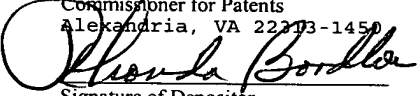
Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. EXPRESS MAIL LABEL NO.: ER510835388US

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below in an envelope as "Express Mail Post Office to Addressee" mailing Label Number **ER510835388US** addressed to:

Commissioner for Patents

Alexandria, VA 22313-1450


Signature of Depositor

Rhonda Goodloe

Print Name of Depositor

Date: September 25, 2003

IN THE UNITED STATES

PATENT AND TRADEMARK OFFICE

Attention: Mail Stop New Patent Application
Commissioner for Patents
Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of:

Inventor(s): **LAWLOR, Shawn P.; NOVARESI, Mark A. and
CORNELIUS, Charles C.**

For: (Title): **SUPERSONIC GAS COMPRESSOR**

1. Type of Application

This new application is for a(n)

- ☒ **Original (nonprovisional)**
☐ Design
☐ Divisional
☐ Continuation
☐ Continuation-In-Part (CIP)

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121).

- ☒ The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed

- A. Required for filing date under 37 C.F.R. § 1.53(b)
(Regular) or 37 C.F.R. § 1.153 (Design) Application

22 Pages of specification

16 Pages of claims

7 Sheets of drawings (Figs. 1-9)

- ☐ The enclosed drawings are photographs(s).
☐ The enclosed drawings are in color. Three (3) sets
of color drawings and a "PETITION TO ACCEPT COLOR
DRAWINGS" are attached. 37 C.F.R. § 1.84 (a)(2) AND
§ 1.84 (b).
☒ formal
☐ informal

B. Other Papers Enclosed

 Pages of declaration and power of attorney

1 Pages of abstract

 Request for Non-publication of application

x Other (Return Receipt Postcard)

4. Additional papers enclosed

- ☐ Amendment to claims
☐ Cancel in this application claims before
calculating the filing fee. (*At least one original
independent claim must be retained for filing
purposes*).
☐ Add the claims shown on the attached amendment (*Claims
added have been numbered consecutively following the
highest numbered original claims*).
☐ Preliminary Amendment
☐ Information Disclosure Statement (37 C.F.R. § 1.98)
☐ Form PTO-SB08
☐ Citations

5. Declaration or Oath (including Power of Attorney)

- ☐ Enclosed
☐ Executed by the inventors
☐ Joint inventor or person showing a proprietary
interest on behalf of inventor who refused to
sign or cannot be reached.
☐ This is the petition required by 37 CFR §1.47 and the
statement required by 37 CFR §1.47 is also attached.
☒ Not enclosed

6. **Inventorship Statement**

The inventorship for all the claims in this application are:

- ☐ The same
☒ Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,
☐ is submitted.
☒ will be submitted.

7. **Language**

- ☒ English

8. **Assignment**

- ☒ An assignment of the invention to RAMGEN POWER SYSTEMS, INC.
☐ is attached.
A separate ☐ COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION or ☐ Form PTO 1595 is also attached.
☒ will follow.

- ☒ An assignment of the invention to RAMGEN POWER SYSTEMS, INC. was submitted to the Patent and Trademark Office on MARCH 28, 2003 in the provisional application serial no. 60/414,793 from which this utility application claims priority from), and recorded on March 28, 2003 as Reel/Frame: 013895/0827.

- ☐ This is a ☐ continuation ☐ divisional application and the assignment document for the parent application
_____/_____
was filed _____ as Reel_____,
Frame _____.

9. **Certified Copy**

Certified copy(ies) of application(s):

Country	Appln. No.	Filed
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from which priority is claimed

- ☐ is (are) attached ☐ will follow.

10. Fee Calculation (37 C.F.R. § 1.16)

A. ☒ Regular Application

CLAIMS AS FILED			
Number Filed	Number Extra	Rate	Basic Fee 37 CFR. §1.16(a) \$750.00
Total Claims (37 CFR § 1.16(c)) 91 -20=	71	X \$18.00	\$ 1278. ⁰⁰
Independent Claims (37 CFR § 1.16b)) 3 -3=	0	X \$84.00	\$ 0
Multiple dependent claims (37 CFR § 1.16) (d))		+ \$280.00	\$ 280. ⁰⁰

- ☐ Amendment canceling extra claims is enclosed.
☐ Amendment deleting multiple-dependencies is enclosed.
☐ Fee for extra claims not being paid at this time.

FILING FEE CALCULATION: \$ 2,308.⁰⁰

B. ☐ Design application

(\$330.00 - 37 C.F.R. § 1.16(f))

FILING FEE CALCULATION: \$.

11. Assertion of Small Entity Status

- ☒ Applicant hereby asserts status as a small entity under 37 C.F.R. § 1.27.

Filing Fee Calculation (50% of A, B, or C above).

\$ 1,154.⁰⁰

12. Fee Payment Being Made At This Time

- ☐ Not enclosed.
☐ No filing fee is to be paid at this time.

☒ Enclosed

- ☒ Filing Fee: \$ 1,154.⁰⁰
☐ Recording Assignment
(\$40.00; 37 C.F.R. § 1.21 (h)) \$

TOTAL FEES ENCLOSED: \$ 1,154.⁰⁰

13. Method of Payment of Fees

- ☒ Check in the amount of \$1,154.⁰⁰
☐ Authorization is hereby made to charge the amount of \$_____ to Deposit Account No. _____.
A duplicate of this transmittal is attached.
☐ Charge any additional fees required by this paper or credit any overpayment in the manner authorized above.

14. Authorization to Charge Additional Fees

- ☒ The Office is hereby authorized, (in the manner shown above), to charge the following additional fees by this paper and during the entire pendency of this application to Account No.: 07-1613.

- ☒ 37 C.F.R. § 1.16(a), (f) or (g) (filing fees)
☒ 37 C.F.R. § 1.16(b), (c) and (d) (presentation of extra claims)
☒ 37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
☒ 37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).
☒ 37 C.F.R. § 1.17 (application processing fees)
☐ 37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b)).

15. Instructions as to Overpayment

- ☒ Credit Account No.: 07-1613.

Date: September 25, 2003

Phone: 253-859-9128

Fax: 253-859-8915

Customer

No.: 20793



SIGNATURE OF ATTORNEY

R. Reams Goodloe, Jr.

Reg. No. 32,466

Suite 3

10725 - S.E. 256th Street

Kent, Washington

98030-8285

☒ **Incorporation by reference of added pages**

- ☒ Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed

Number of pages added: 3

- ☐ Plus Added Pages for Papers Referred to in Item 4 above.

Number of pages added: _____

- ☐ Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.

Number of pages added: _____

- ☐ Plus "Assignment Cover Letter Accompanying New Application"

Number of pages added: _____

☐ **Statement Where No Further Pages Added**

- ☐ This transmittal ends with this page.

ADDED PAGES FOR APPLICATION TRANSMITTAL WHERE BENEFIT OF
PRIOR U.S. APPLICATION CLAIMED

16. Relate Back

☒ Amend the specification by inserting,
before the first line, the following sentence:

A. 35 USC § 119(e)

☒ "This application claims the benefit of U.S.
Provisional Application(s) No(s).:

Application No.: 60/414,793

Filed: September 26, 2002

B. 35 USC §§ 120, 121 and 365(c)

☐ "This application is a

- ☐ continuation
- ☐ continuation-in-part
- ☐ divisional

of copending application(s)

- ☐ application number ____/____ filed
on _____.
- ☐ International Application _____
filed on _____ and which
designated the U.S."

- ☐ "The nonprovisional application designated above,
namely application ____/____, filed
_____ claims the benefit of U.S. Provisional
Application(s) No.(s).:

Application No.: ____/____ Filed: _____

C. Publication of International Application -
Provisional Application

The international application corresponding to the instant
application

☐ was ☐ was not
published under PCT Article 21(2) in the English Language.

17. Relate Back - 356 USC § 119 Priority Claim for Prior Application

The prior U.S. application(s), including any prior International Application designating the U.S., identified above in item 16B, in turn itself claim(s) foreign priority(ies) as follows:

Country	Application No.	Filed on
---------	-----------------	----------

The certified copy(ies) has (have)

- ☐ been filed on _____, in prior application
- ☐ _____/_____, which was filed on _____.
- ☐ is (are) attached.

18. Maintenance of Copendency of Prior Application

- A. ☐ Extension of time in prior application
- ☐ A petition, fee and response extends the term in the pending prior application until _____.
☐ A copy of the petition filed in prior application is attached.

- B. ☐ Conditional Petition for Extension of Time in Prior Application
- ☐ A conditional petition for extension of time is being filed in the pending prior application.
☐ A copy of the conditional petition filed in the prior application is attached.

19. Further Inventorship Statement Where Benefit of Prior Application(s) Claimed

- (a) ☒ This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above and the inventor(s) in this application are:
- ☒ the same.
 - ☐ less than those named in the prior application. It is requested that the following inventor(s) identified for the prior application be deleted:

- (b) ☐ This application discloses and claims additional disclosure ☐ by amendment ☐ and a new declaration or oath ☐ will be ☐ is being filed. With respect to the prior application, the inventor(s) in this application are:
☐ the same.
☐ the following additional inventor(s) have been added:
-

- (c) ☒ The inventorship for all the claims in this application are:
☐ the same.
☒ not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made
☐ is submitted
☒ will be submitted.

20. Abandonment of Prior Application

☐ Please abandon the prior application at a time while the prior application is pending, or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application.

21. Small Entity (37 CFR § 1.28(a))

☒ Applicant hereby asserts status as a small entity under 37 C.F.R. § 1.27.

22. NOTIFICATION IN PARENT APPLICATION OF THIS FILING

☐ A notification of the filing of this
☐ continuation
☐ continuation-in-part
☐ divisional

is being filed in the parent application, from which this application claims priority under 35 USC § 120.